

# **Swan Canning Estuary Water Quality Monitoring Project**

## **Weekly Water Quality Report**

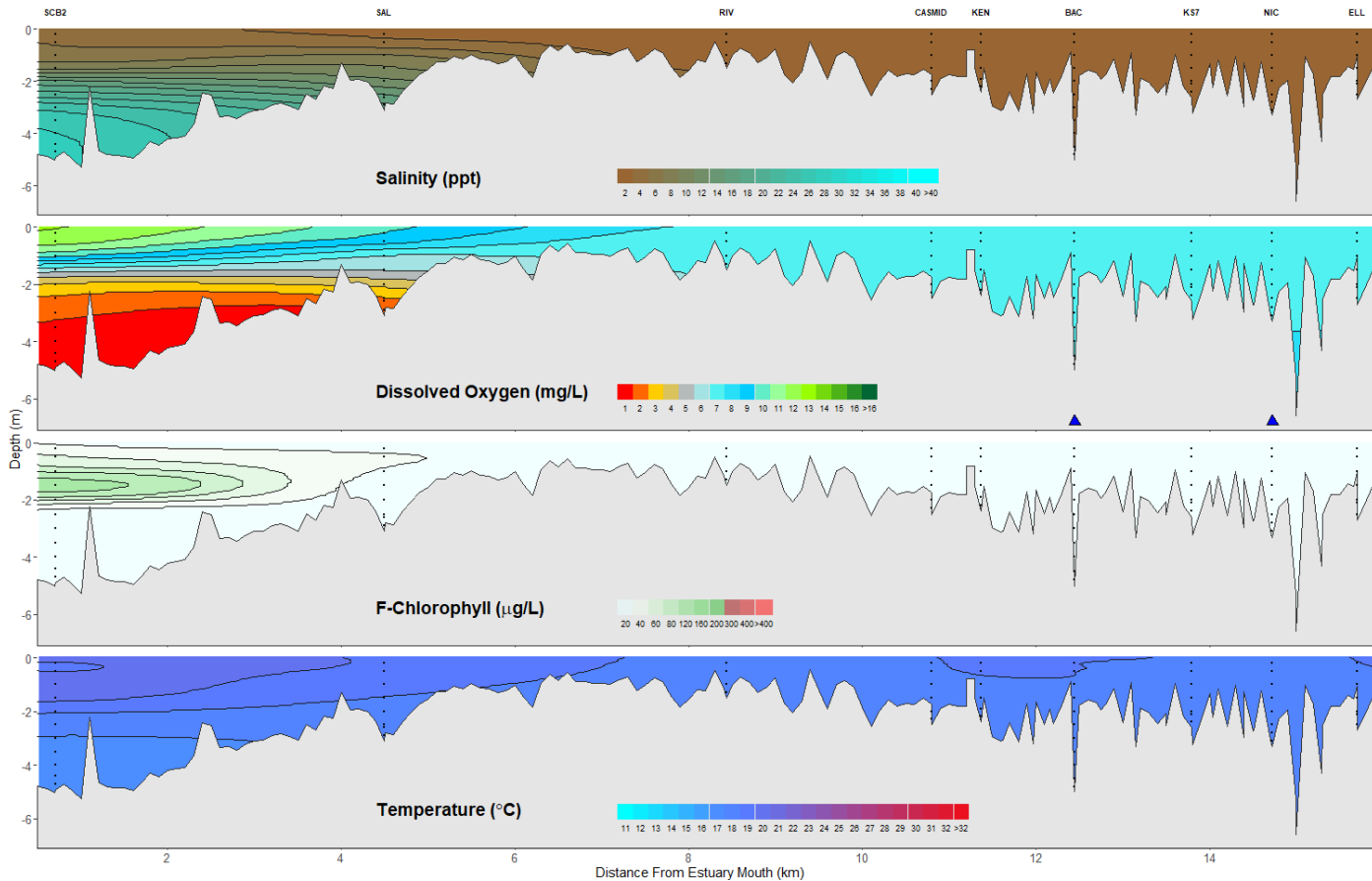
### **Canning Estuary and Lower Canning River**

**23 September 2025**

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# Canning Estuary and Lower Canning River - Water Quality Profiles – 23 September 2025



Date: 23 September 2025

Weather & tide conditions: Conditions were cloudy with a northerly breeze up to 11.3 knots. The predicted tides at Barrack St were 0.72 m at 6:18 am (low tide), 0.85 m at 12:23 pm (high tide), and 0.76 m 4:56 pm (second low tide). Perth recorded 17 mm of rainfall in the week prior to sampling (Bureau of Meteorology).

Oxygenation: The Bacon St and Nicholson Rd oxygenation plants were operable but not triggered to provide oxygen in the 24 hours prior to sampling.

Canning Estuary (SCB2 to CASMID): The Canning Estuary was fresh over saline at SCB2, fresh over brackish at SAL, and fresh from RIV to CASMID. Waters were well oxygenated except for bottom waters at SCB2 and SAL which ranged from low in oxygen to hypoxic. Chlorophyll fluorescence was high in the subsurface at SCB2 and low elsewhere. Water temperatures ranged from 16.6 to 19.3°C.

Lower Canning River (KEN to ELL): The Lower Canning River was fresh and well oxygenated with low chlorophyll fluorescence throughout. Water temperatures ranged from 17.6 to 18.4°C.

NB: Profile plots are visual interpolations of measured parameters only. Detailed data are available at [wir.water.wa.gov.au](http://wir.water.wa.gov.au).

**Oxygenation Plant Operational Status:**

- ▲ Operating for part or all of the 24 hours prior to sampling
- ▲ Operable but not triggered to operate in the 24 hours prior to sampling
- ▲ Inoperable for part or all of the 24 hours prior to sampling

**Definitions:**

Salinity – fresh <5, brackish 5-25, saline 25-35, hypersaline >35

Dissolved oxygen – well oxygenated >6 mg L<sup>-1</sup>, oxygenated >4-6 mg L<sup>-1</sup>, low oxygen >2-4 mg L<sup>-1</sup>, hypoxic 0.5-2 mg L<sup>-1</sup>, anoxic <0.5 mg L<sup>-1</sup>

Chlorophyll fluorescence (low flow): low < 50 µg L<sup>-1</sup>, moderate 50-150 µg L<sup>-1</sup>, high 150-400 µg L<sup>-1</sup>, extreme > 400 µg L<sup>-1</sup>